## What is claimed is:

- A control system for a hydrostatic unit having a swashplate comprising:
- 5 an electronic means for producing a dithered output signal; a pressure control adapted to receive the dithered output signal and position the swashplate.
- The control system for a hydrostatic unit of claim 1
  wherein the electronic means is a microprocessor.
  - 3. The control system of claim 2 wherein the microprocessor receives information from a set point command signal.

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- 4. The control system of claim 2 wherein the microprocessor receives information from a feedback sensor.
- 5. The control system of claim 1 wherein the pressure control is a flapper nozzle style pilot valve with two boost spools.
- 6. The control system of claim 1 further comprising:

   a servo system operably connected to the pressure control

  25 and swashplate.
  - 7. A method of controlling the angle of a swashplate of a hydrostatic unit having a swashplate comprising steps of: generating an electric signal based on a set point signal; receiving the electric signal in a microprocessor; interpolating the information from the electric signal using an algorithm contained in the microprocessor;

sending an output signal from the microprocessor to a pressure control;

dithering the output signal; and generating a dithered pressure from the pressure control that displaces the swashplate.

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- 8. The method of claim 7 wherein the set point signal is generated by measuring an operational parameter.
- 10 9. The method of claim 8 wherein the operational parameter is the angle of the swashplate.
  - 10. The method of claim 7 wherein the algorithm is a PID type algorithm.
  - 11. The method of claim 7 wherein the algorithm is a PID + feed forward algorithm.
- 12. The method of claim 7 wherein the algorithm is a KIDT120 algorithm.
  - 13. The method of claim 7 wherein the pressure control is a flapper nozzle style pilot valve with two boost spools.
- 25 14. The method of claim 7 wherein the pressure control is a flapper nozzle style pilot valve with one boost spool.
  - 15. The method of claim 7 wherein the pressure control is a flow control.
  - 16. The method of claim 7 wherein the pressure control is comprised of two pressure controls.

- 17. The method of claim 7 wherein the output signal is dithered by the pressure control.
- 5 18. The method of claim 7 wherein the output signal is dithered by the microprocessor.
  - 19. A control system for a hydrostatic pump having a swashplate comprising:
- - a microprocessor adapted to receive information from the feedback sensor and produce a dithered output signal;
- a pressure control adapted to receive the dithered output 15 signal and position the swashplate.
  - 20. The control system of claim 19 wherein the microprocessor is also adapted to receive information from a set point command signal.

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